

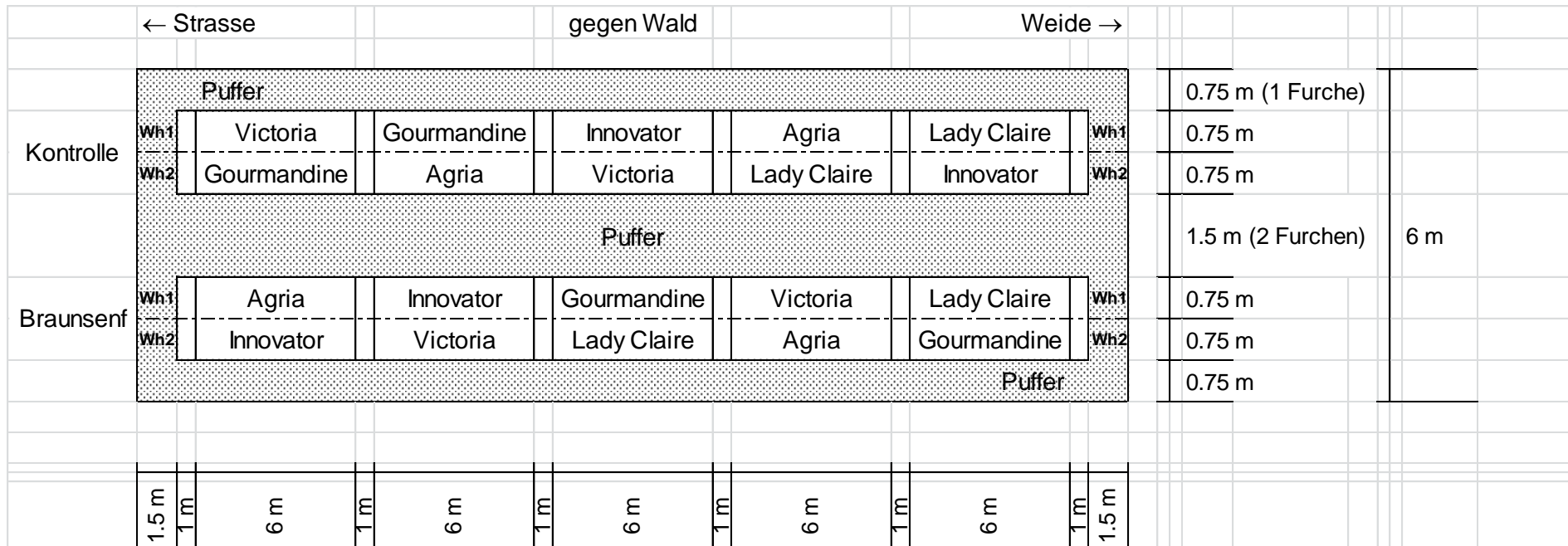
# Control of powdery scab: Biofumigation with *Brassica juncea*, cv *Caliente 99*

Field trial 2013

Marco Phillot, SEMAG, Saat- und Pflanzgut AG, and Ueli Merz, ETH Zurich



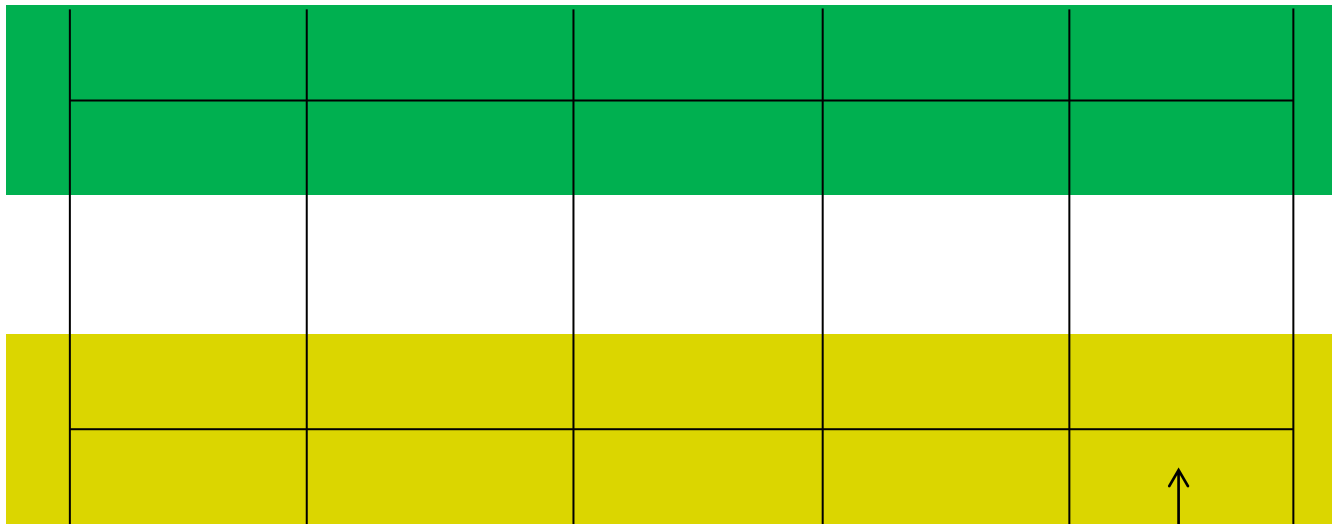
# Field trial 2013: Layout (5 cultivars; 2 reps/treatment)





# Field trial 2013: mustard sowing and soil samples collection

Control



Mustard: sown April 16 (12kg/ha)

4 soil samples, Mai 3:  
bulk

## Field trial 2013: Mulching date July 6 (91 das)





# Field trial 2013: Planting date July 15 (1 week after mulching)



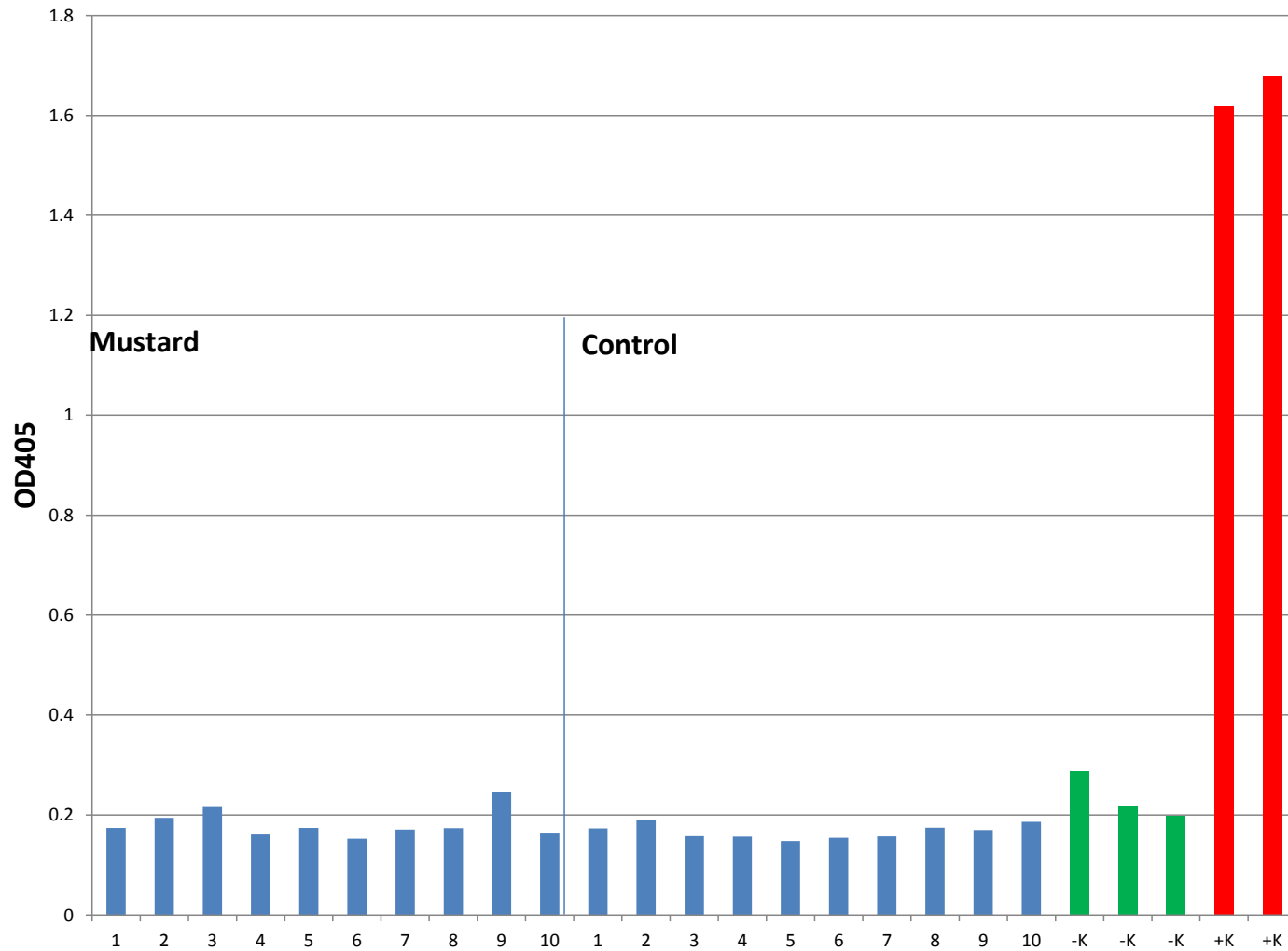
August 13, 29 dap

# Field trial 2013: harvesting date October 10 (2 pl/rep)

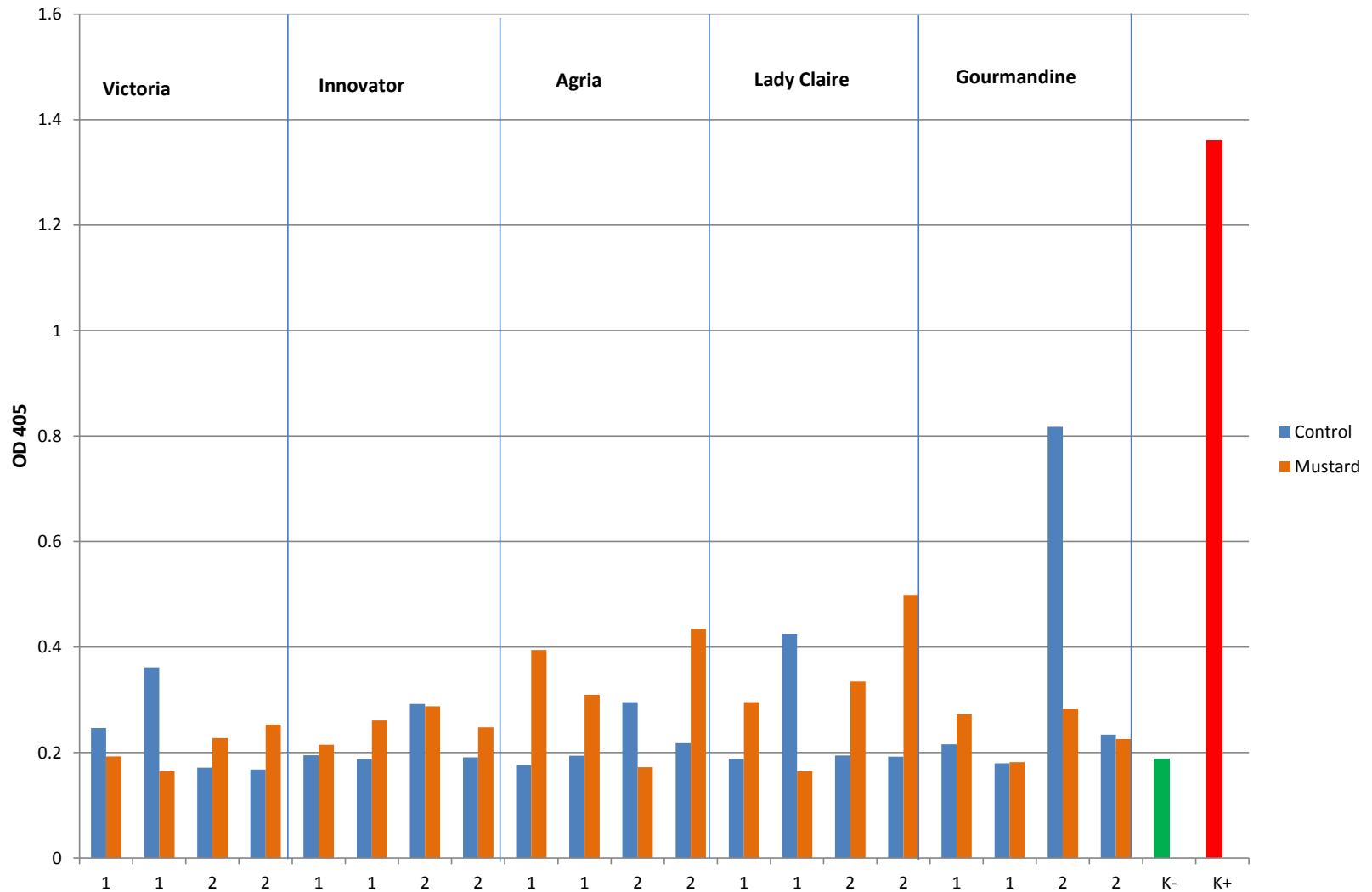


August 13, 29 dap

# Field trial 2013: soil samples of May (20): ELISA



# Field trial 2013: soil samples of October (2/rep): ELISA







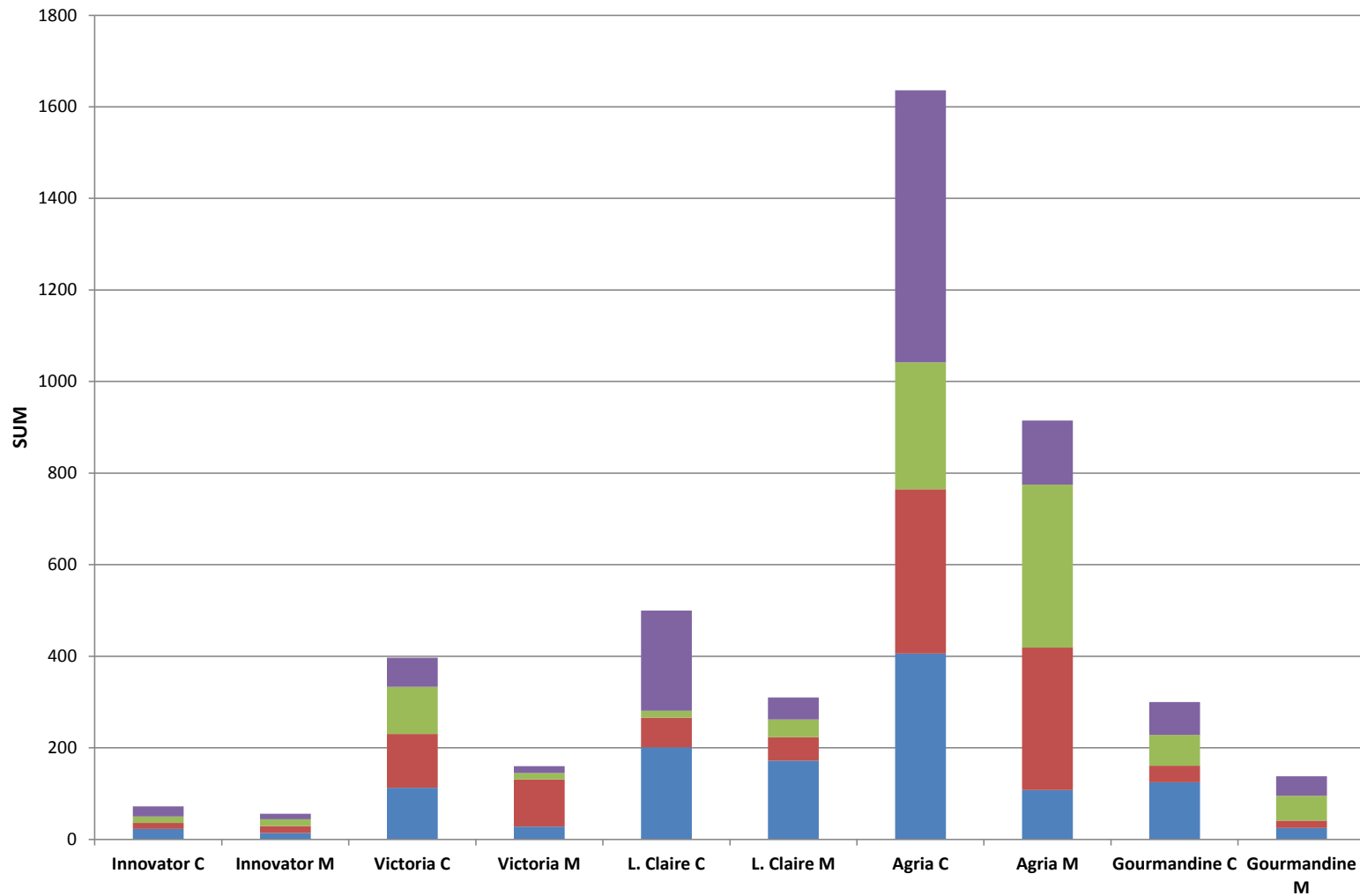
## Field trial 2013: tuber scoring scale

Scoring scale	Surface covered	exp
1	0%	1
3	>0 % - <5 %	9
5	>=5 % - <10 %	25
7	>=10 % - <15 %	49
9	>=15 %	81

Final data (2 reps; 2 plants/rep):

SUM (number of tubers per category x exp scoring scale)

# Field trial 2013: tuber scoring data





“Biofumigation has saved what we do. Because we haven't got the broad range of crops to grow we had to find a better way of growing potatoes in a quick rotation.”

“People always want to plant something they can get money off, and this stuff doesn't. They're happy to go and buy a drum of Nematicur and Roundup type products and kill something, but this (brassica planting) is long-term thinking.”

Darren Long, MG Farm Produce, Tasmania

